ESAT DATA VALIDATION EVALUATION CHECKLIST Contract # EP-W-06-016

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Task Order #: <u>0042</u>	TDF #: <u>c</u>	2085 R	evision #: <u>0</u>		#: <u>R33917</u>	
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CLP Laboratory Code: TAL BU	<u> </u>	17				
EPA CLP TPO: Jennifer Feranda EPA RPM:			Region: 2			
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***************************************			Number of sample	s:	20	
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Rev.: 5/11//06

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III



Environmental Sciences Center 701 Mapes Road Fort Meade, Maryland 20755-5350

DATE:

February 24, 2012

SUBJECT:

Region III Data QA Review

FROM:

Colleen Walling

Region III ESAT RPO (3EA20)

TO:

Rich Fetzer

Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS#33917; SDG#: 480-15770-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042

TDF: #02096 Data Validation

TO: #0042

TDF: 02085 Sample Log-in Processing

cc: Gene Nance (Techlaw)

Suddha Graves (Techlaw)

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

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Customer Service Hotline: 1-800-438-2474

ESAT DATA VALIDATION EVALUATION CHECKLIST Contract # EP-W-06-016

020%

Task Order #: <u>0042</u>	TDF #: <u>_c</u>	2005	Revision #: 0		#: <u>R33917</u>
Site Name: <u>Dimock</u>				SDG #: 480	
Analysis Type: Organic	\$55.11.1.5.			SOW #: _	SW-846 Method 8015B
Reviewer: Ex. 4 - CBI	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
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EPA CLP TPO: Jennifer Feran	nda		Region: 2		
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ESAT DATA VALIDATION EVALUATION CHECKLIST Contract # EP-W-06-016

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Site Name: <u>Dimock</u>				SDG #: 480		
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Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

Date:

February 22, 2012

Subject:

Organic Data Validation (M3 Level)

Case: R33917

Project: 480-15770-1

Site: Dimock

From:

Ex. 4 - CBI

Organic Data Reviewer

Ex. 4 - CBI

Senior Oversight Chemist

To:

Colleen Walling

ESAT Region 3 Project Officer

OVERVIEW

Third party Case R33917, Project 480-15770-1, consisted of twenty (20) aqueous samples including five (5) field blanks and one (1) rinsate blank analyzed for ethylene glycol, diethylene glycol, triethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. Samples were analyzed by TestAmerica Buffalo (TAL BUF) according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

<u>SUMMARY</u>

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with respect to data usability are listed below.

MINOR PROBLEMS

Several compounds failed precision criteria [Percent Difference (%D)] (>15%) in continuing calibrations per Method 8015B. Positive results for triethylene glycol and diethylene glycol were impacted and were qualified "J" unless superseded by "B" on the DSFs. Quantitation limits were not impacted since the %D did not exceed the 50% criteria.

Case #: R33917

Project: 480-15770-1

Site:

DIMOCK

Lab.:

TAL BUF

Number of Water Samples: 20

Sample Number:		HW02		EB01		FB02		FB03		FB04	
Sampling Location:		HW02		EB01		FB02		FB03		FB04	
Laboratory ID:		480-15770-1	ı	480-15770-	2	480-15770-3		480-15770-4	1	480-15770-5	5
Field QC:		1		Equipment	Blank	Field Blank		Field Blank		Field Blank	
Matrix:		1		Water		Water		Water		Water	
Units:	7	mg/L	1			mg/L		mg/L		mg/L	
Date Sampled:	:	01/25/2012		01/28/2012		01/24/2012		01/25/2012		01/26/2012	
Time Sampled :		12:58		11:26		12:11		10:01		09:13	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10		UL				UL		UI.		
Triethylene glycol	10		UL				UL	1.7	J		
Diethyleneglycol	10	0.64		0.55	J,	-0.53	J	0.56	J	0.59	J J
2-Methoxyethanol	10		UL				UL		UL		
2-Ethoxyethanol	10		UL				UL		WL		

Sample Number:		FB05		FB06		HW01		HW02z		HW04	
Sampling Location:		FB05		FB06		HW01		HW02z		HW04	
Laboratory ID:		480-15770-6		480-15770-7	,	480-15770-	8	480-15770-	9	480-15770-	10
Field QC:		Field Blank		Field Blank							
Matrix:		Water		Water	Water			Water	1	Water	
Units:		mg/L	mg/L			mg/L		mg/L		mg/L	
Date Sampled:		01/27/2012	01/27/2012		1/30/2012 01/25/2012		01/25/2012		01/24/2012		
Time Sampled:	e Sampled : 09:40			09:30		16:31		12:59		14:33	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10						UL		UL		UL
Triethylene glycol	10						UL		UL		UL
Diethylene glycol	10	0.56	J	0.56	J	0.56	В	0.54	B	0.52	В
2-Methoxyethanol	10						UL		UL		UL
2-Ethoxyethanol	10						UL		UL		UL

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

To calculate sample quantitation limits: (RL * Dilution Factor)

DATA SUMMARY FORM: Volatiles

Case #: R33917

Project: 480-15770-1

Site:

DIMOCK

Lab.: TAL BUF

Sample Number :		HW05	HW05		HW06		HW08a			HW13	
Sampling Location:		HW05		HW06	HW06			HW12		HW13	
Laboratory ID:		480-15770-1	1	480-15770-1	2	480-15770-13		480-15770-14		480-15770-15	
Matrix :		Water	*	Water		Water		Water		Water	
Units:		mg/L	mg/L		mg/L		mg/L			mg/L	
Date Sampled:		01/26/2012			01/26/2012		01/25/2012		01/26/2012		
Time Sampled:		11:35	: :	15:30		11:46		13:23		11:23	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10						UL				l.
Triethylene glycol	10	2.2	J			3.0	В				1
Diethylene glycol	10	0.68	J B ∣				UL			0.57	В
2-Methoxyethanol	10						UL		1		1
2-Ethoxyethanol	10					National autor	UL				

Sample Number:		HW14		HW14-P		HW17		HW24	1.5.5.	HW24-P HW24 480-15770-20	
Sampling Location:		HWI4		HW14		HW17		HW24 480-15770-19			
the state of the s		480-15770-1	6	480-15770-17		480-15770-1	8				
Matrix:		Water		Water		Water		Water		Water	
Units:		mg/L		mg/L		mg/L		mg/L		mg/L	
Date Sampled:		01/26/2012		01/26/2012		01/27/2012		01/27/2012		01/27/2012	
Time Sampled:		17:13		19:15	."	11:40		12:09		13:18	
Dilution Factor:	411	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10										
Triethylene glycol	10										
Diethylene glysol	10	0.59	В	0.56	В	0.54	В	0.57	В	0.56	(72)
2-Methoxyethanol	10										ĺ
2-Ethoxyethanol	10								l		

RL = Reporting Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

J. Zu

Dimock Validation Report Routing

Fred Foreman to: Ex. 4 - CBI

Cc: Colleen Walling

02/22/2012 04:28 PM

From:

Fred Foreman/ESC/R3/USEPA/US

To:

Ex. 4 - CBI

Cc:

Colleen Walling/ESC/R3/USEPA/US

Ex. 4 - CBI

Basically, the final signed report is scanned and saved to Nonresponsive and an email sent to Robin Costas, Colleen, Cindy Caporale and myself letting us know it is done.

(Fig. 1)

data flowchart for validation.docx

Fred Foreman, Chief
Technical Services Branch
Office of Analytical Services & Quality Assurance
US EPA Region III
Ft. Meade, Maryland
410-305-2629

Data Flow for Dimock Tier IV Validation

FredF will download and place in appropriate folders the level 4, CLP-like analytical reports and EDDs from the respective laboratories Fred F will send email to RobinC, ESAT, ColleenW, CindyC stating: 1. Level 4 data package and EDD have been downloaded 2. Provide the filename 3. ESAT should begin validation based on TDF issued by PO Once validation is complete & approved: 1. ESAT should save completed validation file in PDF format in J: ESAT Dowloaded/Dimock/T4 - Validated 2. Send notification of completion to RobinC, Cindy C, ColleenW, FredF Robin will forward completed validation report and EDD to customer

Environmental Protection Agency Contract No.: EP-W-06-016 Contractor Lockheed Office of Emergency and Remedial Response Task Order No.: 0042 TECHNICAL DIRECTION FORM Sub-Task No.: 2 **REGION 3 - ESAT** Technical Direction No. 02096 - Data 02085-Sumple Task Order Project Officer: Colleen Walling Phone (410) 305-2763 Data Review Description of Task: Account Number: 2012T03N303DC6A3RARS00 Deliverable Due Date: 02/22/2012 SDG: 480-15770-1 SITE NAME: DIMOCK RESIDENTIAL GROUNDWATER SITE Review the CLP analytical data for case: R33917 Additional sample information can be found on the attached QA assignment slip. Follow data validation procedures outlined in SOPs and Guidance documents listed in the Task Order. Case R33917 Number of Samples 20 W Validation Level: M3Comments: FLAT FILE REQ'D: YES I CERTIFY THAT THIS TECHNICAL DIRECTIVE DOES NOT REQUEST SERVICES THAT ARE INHERENTLY GOVERNMENTAL FUNCTIONS AND THAT IT DOES NOT ALTER THE (1) STATEMENT OF WORK, (2) LEVEL OF EFFORT, (3) COST OF PERFORMING THE AUTHORIZED WORK, (4) NUMBER OF DELIVERABLES, OR (5) THE DUE DATES OF DELIVERABLES FOR THE ABOVE REFERENCED WORK ASSIGNMENT Date 2/22/20/2 Original to Contractor

cc: TOPO file

Project Officer

Contracting Officer